

[illegible]

liberal arts natural languages philosophies

□□□□□□□ AlphaGo □□□□□

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[[ Deepmind [4]
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AlphaGo Master 五连胜 AlphaGo Master 四连胜 AlphaGo Master 三连胜
AlphaGo Master 二连胜 AlphaGo Zero 一胜 AlphaGo Master 一胜 AlphaGo Master
一胜 AlphaGo Master 一胜 AlphaGo Master 一胜 AlphaGo Master 一胜

AlphaGo Zero 100% AlphaGo Master 100% AlphaGo Zero 100% [5] AlphaGo Master 100% AlphaGo Zero 100% AlphaGo Zero 14 16 45

1 Nature Magazine AlphaGo Deepmind AlphaGo Zero
AlphaGo Master

2) AlphaGo Zero local trap
AlphaGo Zero Superhuman

[AlphaGo Zero](#) [AlphaGo Master](#) [AlphaGo Master](#) [AlphaGo Master](#) [6] [Nature Magazine](#) [AlphaGo Zero paper](#) [AlphaGo Master](#) [deep-learning](#)

AlphaGo Zero AlphaGo Master AlphaGo Master

AlphaGo Zero [7] game

Superhuman
Clock IBM S/360
AlphaGo Zero superhuman IBM S/360
AlphaGo Zero Nature Magazine AlphaGo Zero paper
superhuman

superhuman Technological Singularity
Demis Hassabis AlphaGo

AlphaGo Deepmind team
AlphaGo

Demis Hassabis and AlphaGo [13] and Geoffrey Hinton

Turing Machine and Geoffrey Hinton Turing Machine Alan Turing

Dialogue Concerning the Two Chief World Systems [14] Socratic method [15]

The Sceptical of Chemist

On the Origin of Species

[16]

[17]

Leukotomy BRIAN Initiative

Leukotomy

1 personalities mental diseases personalities BRAIN Initiative project

2 leukotomy Leukotomy BRAIN Initiative AlphaGo

3 personality intelligence Walter Freeman personality intelligence

BRAIN Initiative project NIH BRAIN 2025 Report “there is general agreement that types can be defined provisionally by invariant and generally intrinsic properties” invariant agreement

insights“envision an integrated, systematic census of neuronal and glial cell types”dynamic brain mapping “Link brain activity to behavior”“Produce conceptual foundations for understanding the biological basis of mental processes”mental processes behavior

BRAIN Initiative project personality intelligence brain mapping personality intelligence hidden assumptions

personality intelligence

BRAIN Initiative project brain mapping mental diseases personality intelligence leukotomy

leukotomy AlphaGo

personality intelligence mental diseases

BRAIN Initiative brain mapping human level intelligence personalities intelligence mental diseases BRAIN Initiative neurosciences AlphaGo generic human intelligence AlphaGo neurosciences [18]

AlphaGo Master AlphaGo Zero AlphaGo AlphaGo Master AlphaGo

AlphaGo

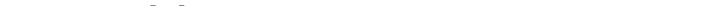
Technological Singularity BRAIN Initiative project Technological Singularity baseless

AlphaGo Zero achieved superhuman performance Demis Hassabis AlphaGo

[1] □□□□□□□□□□□□□□□□□□

[illegible][illegible][illegible][illegible][illegible]

[4] 碁盤 Cracking Go 碁盤 Deep Blue 碁盤 AlphaGo 碁盤 AlphaGo 碁盤

[6] AlphaGo Master 

[7] superhuman AlphaGo

Turing Machine \rightarrow limitation
 AlphaGo \rightarrow AlphaGo

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 □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ AlphaGo □□□□□□□□□□□□□□□□

AlphaGo 围棋人工智能系统，由 Google DeepMind 开发，于 2016 年 3 月 9 日在首尔举行的世界围棋锦标赛上，以 4:1 的比分战胜了世界冠军李世石，成为第一个在围棋领域击败人类的计算机程序。

AlphaGo 是 Google 开发的围棋人工智能程序。AlphaGo 是 AlphaGo Zero 的早期版本，旨在达到人类水平的人工智能。AlphaGo 在 2016 年击败了世界围棋冠军李世石，成为第一个在围棋领域击败人类顶尖选手的人工智能程序。

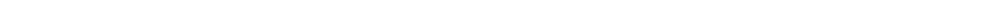
Google/Deepmind AlphaGo


[8] <http://www.alphago-games.com/> Full Strength of AlphaGo Zero, i.e. Final Form 40 Blocks 20 Blocks Not Full Strength of AlphaGo Zero AlphaGo Zero superhuman

[9] 2012 年 12 月 31 日 止 的 年 度 末 的 数 据 来 源 于 中 国 统 计 局 的 中 国 统 计 年 鉴 。

[10] □□□□:"Go gaming is strictly defined within a very small space. Industrial automations are typically designed in well controlled environments, but not strictly defined. Car driving is regulated, but the environment is not well controlled"□□□□
□□

[illegible]

[11] 

[12] 

AlphaGo 围棋程序

[13] [AlphaGo Master](#)

